

Supplemental table 2. FACS gating strategy.

Panel 1			
Population	reported as % of	Phenotype	Gating
%CD3+ T cells	lymphocytes	CD3+	CD3 histogram
%CD4+ T cells	lymphocytes	CD4+	CD4 histogram/SSC-A
%CD8+ T cells	lymphocytes	CD8+	CD8 histogram/SSC-A
%CD3+CD4+ T cells	lymphocytes	CD3+CD4+	CD4 vs. CD3
%CD3+CD8+ T cells	lymphocytes	CD3+CD8+	CD8 vs. CD3
%CD8-CD4- cells	CD3 T cells	CD3+CD4-CD8-	CD4 vs. CD8
%CD8-CD4+ cells	CD3 T cells	CD3+CD4+CD8-	CD4 vs. CD8
%CD8+CD4- cells	CD3 T cells	CD3+CD4-CD8+	CD4 vs. CD8
%CD8+CD4+ cells	CD3 T cells	CD3+CD4+CD8+	CD4 vs. CD8
%CD25+FoxP3+ Tregs	CD3+CD4+ T cells	CD3+CD4+CD25+Foxp3+	FoxP3 vs. CD25
%CD25+FoxP3-	CD3+CD4+ T cells	CD3+CD4+CD25+Foxp3-	FoxP3 vs. CD25
%Treg effector (CD45RA-CD15s+)	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD15s+	CD45RA vs. CD15s
%Treg naive (CD45RA+CD15s-)	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+CD15s-	CD45RA vs. CD15s
%CD45RA-CD15s-	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD15s-	CD45RA vs. CD15s
%CD45RA+CD15s+	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+CD15s+	CD45RA vs. CD15s
%Treg effector proliferative (CD45RA-Ki67+)	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-Ki67+	CD45RA vs. Ki67
%CD45RA-Ki67-	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-Ki67-	CD45RA vs. Ki67
%CD45RA+Ki67+	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+Ki67+	CD45RA vs. Ki67
%CD45RA+Ki67-	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+Ki67-	CD45RA vs. Ki67

%CD147high Tregs (CD45RA-CD147++ high)	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD147++	CD45RA vs. CD147
%CD147med Tregs (CD45RA-CD147+ medium)	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD147+	CD45RA vs. CD147
%CD45RA+CD147+	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+CD147+	CD45RA vs. CD147
%Distribution of CD39 on effector Treg cells (CD45RA-CD39+)	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD39+	CD45RA vs. CD39
%CD45RA-CD39-	Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD39-	CD45RA vs. CD39
%CD45RA+CD39+	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+CD39+	CD45RA vs. CD39
%CD45RA+CD39-	Tregs	CD3+CD4+CD25+Foxp3+CD45RA+CD39-	CD45RA vs. CD39
Expression % of CD147++high on effector Tregs	CD45RA-CD15s+Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD15s+CD147++	CD147 vs. SSC
Expression % of CD147+med on effector Tregs	CD45RA-CD15s+Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD15s+CD147+	CD147 vs. SSC
Expression % of CD39 on effector Treg cells	CD45RA-CD15s+Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD15s+CD39+	CD39 vs. SSC
Expression % of Ki67 on effector Treg cells	CD45RA-CD15s+Tregs	CD3+CD4+CD25+Foxp3+CD45RA-CD15s+Ki67+	Ki67 vs. SSC
%CD161- trans-Tregs	CD45RA-CD15s-	CD3+CD4+CD25+Foxp3+CD161-	CD161 vs. SSC-A
%CD161+ Th17-type Tregs	CD45RA-CD15s-	CD3+CD4+CD25+Foxp3+CD161+	CD161 vs. SSC-A
Th cell Proliferation (%CD45RA-Ki67+)	CD3+CD4+ T cells	CD3+CD4+CD45RA-Ki67+	CD45RA vs. Ki67
%CD45RA-Ki67-	CD3+CD4+ T cells	CD3+CD4+CD45RA-Ki67-	CD45RA vs. Ki67
%CD45RA+Ki67+	CD3+CD4+ T cells	CD3+CD4+CD45RA+Ki67+	CD45RA vs. Ki67

%CD45RA+Ki67-	CD3+CD4+ T cells	CD3+CD4+CD45RA+Ki67-	CD45RA vs. Ki67
Distribution of CD147 on Th cells (%CD45RA-CD147++high)	CD3+CD4+ T cells	CD3+CD4+CD45RA-CD147++	CD45RA vs. CD147
%CD45RA-CD147+medium	CD3+CD4+ T cells	CD3+CD4+CD45RA-CD147+	CD45RA vs. CD147
%CD45RA+CD147+	CD3+CD4+ T cells	CD3+CD4+CD45RA+CD147+	CD45RA vs. CD147
Distribution of CD39 on Th cells (%CD45RA-CD39+)	CD3+CD4+ T cells	CD3+CD4+CD45RA-CD39+	CD45RA vs. CD39
%CD45RA-CD39-	CD3+CD4+ T cells	CD3+CD4+CD45RA-CD39-	CD45RA vs. CD39
%CD45RA+CD39+	CD3+CD4+ T cells	CD3+CD4+CD45RA+CD39+	CD45RA vs. CD39
%CD45RA+CD39-	CD3+CD4+ T cells	CD3+CD4+CD45RA+CD39-	CD45RA vs. CD39
Tc cell Proliferation (%CD45RA-Ki67+)	CD3+CD8+ T cells	CD3+CD8+CD45RA-Ki67+	CD45RA vs. Ki67
%CD45RA-Ki67-	CD3+CD8+ T cells	CD3+CD8+CD45RA-Ki67-	CD45RA vs. Ki67
%CD45RA+Ki67+	CD3+CD8+ T cells	CD3+CD8+CD45RA+Ki67+	CD45RA vs. Ki67
%CD45RA+Ki67-	CD3+CD8+ T cells	CD3+CD8+CD45RA+Ki67-	CD45RA vs. Ki67
Distribution of CD147 on Tc cells (%CD45RA-CD147++high)	CD3+CD8+ T cells	CD3+CD8+CD45RA-CD147++	CD45RA vs. CD147
%CD45RA-CD147+medium	CD3+CD8+ T cells	CD3+CD8+CD45RA-CD147+	CD45RA vs. CD147
%CD45RA+CD147+	CD3+CD8+ T cells	CD3+CD8+CD45RA+CD147+	CD45RA vs. CD147
Distribution of CD39 on Tc cells (%CD45RA-CD39+)	CD3+CD8+ T cells	CD3+CD8+CD45RA-CD39+	CD45RA vs. CD39
%CD45RA-CD39-	CD3+CD8+ T cells	CD3+CD8+CD45RA-CD39-	CD45RA vs. CD39
%CD45RA+CD39+	CD3+CD8+ T cells	CD3+CD8+CD45RA+CD39+	CD45RA vs. CD39

%CD45RA+CD39-	CD3+CD8+ T cells	CD3+CD8+CD45RA+CD39-	CD45RA vs. CD39
%CD161 on CD3+CD8+ cells	CD3+CD8+ T cells	CD3+CD8+CD161+	CD161 vs. SSC-A
Proliferative % CD3+CD8+ T cells	CD3+CD8+ T cells	CD3+CD8+Ki67+	Ki67 vs. SSC-A
%CD161 on CD3-CD8+ cells	CD3-CD8+ T cells	CD3-CD8+CD161+	CD161 vs. SSC-A
Panel 2			
Population	reported as % of	Phenotype	Gating
CD3+CD4+ T cells	lymphocytes	CD3+CD4+	CD3 vs. CD4
naive CD4	CD3+CD4+ T cells	CD3+CD4+CD45RA+CCR7+	CD45RA vs. CCR7
naive CD4 CD28+CD27+	naive CD4	CD3+CD4+CD45RA+CCR7+CD27+CD28+	CD27 vs. CD28
CD4 naive CD57+ PD1+	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD57+PD1+	CD57 vs. PD1
CD4 naive CD57+ PD1-	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD57+PD1-	CD57 vs. PD1
CD4 naive CD57- PD1+	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD57-PD1+	CD57 vs. PD1
CD4 naive CD57- PD1-	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD57-PD1-	CD57 vs. PD1
CD4 naive CD38+ HLADr+	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD38+HLADR+	CD38 vs. HLADr
CD4 naive CD38+ HLADr-	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD38+HLADR-	CD38 vs. HLADr
CD4 naive CD38- HLADr+	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD38-HLADR+	CD38 vs. HLADr

CD4 naive CD38- HLADr-	naive CD4 CD28+CD27+	CD3+CD4+CD45RA+CCR7+CD27+CD28+CD38-HLADR-	CD38 vs. HLADr
CD4 CM	CD3+CD4+ T cells	CD3+CD4+CD45RA-CCR7+	CD45RA vs. CCR7
CD4 CM CD28+CD27+	CD4 CM	CD3+CD4+CD45RA-CCR7+CD27+CD28+	CD27 vs. CD28
CD4 CM CD57+ PD1+	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD57+PD1+	CD57 vs. PD1
CD4 CM CD57+ PD1-	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD57+PD1-	CD57 vs. PD1
CD4 CMCD57- PD1+	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD57-PD1+	CD57 vs. PD1
CD4 CM CD57- PD1-	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD57-PD1-	CD57 vs. PD1
CD4 CM CD38+ HLADr+	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD38+HLADR+	CD38 vs. HLADr
CD4 CM CD38+ HLADr-	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD38+HLADR-	CD38 vs. HLADr
CD4 CMCD38- HLADr+	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD38-HLADR+	CD38 vs. HLADr
CD4 CM CD38- HLADr-	CD4 CM CD28+CD27+	CD3+CD4+CD45RA-CCR7+CD27+CD28+CD38-HLADR-	CD38 vs. HLADr
CD4 EM	CD3+CD4+ T cells	CD3+CD4+CD45RA-CCR7-	CD45RA vs. CCR7
CD4 EM CD27-CD28+	CD4 EM	CD3+CD4+CD45RA-CCR7-CD27-CD28+	CD27 vs. CD28
CD4 EM CD27+CD28+	CD4 EM	CD3+CD4+CD45RA-CCR7-CD27+CD28+	CD27 vs. CD28
CD4 EM CD27+CD28-	CD4 EM	CD3+CD4+CD45RA-CCR7-CD27+CD28-	CD27 vs. CD28
CD4EM CD27-CD28-	CD4 EM	CD3+CD4+CD45RA-CCR7-CD27-CD28-	CD27 vs. CD28

CD4 EM CD57+ PD1+	CD4 EM	CD3+CD4+CD45RA-CCR7-CD57+PD1+	CD57 vs. PD1
CD4 EM CD57+ PD1-	CD4 EM	CD3+CD4+CD45RA-CCR7-CD57+PD1-	CD57 vs. PD1
CD4 EM CD57- PD1+	CD4 EM	CD3+CD4+CD45RA-CCR7-CD57-PD1+	CD57 vs. PD1
CD4 EM CD57- PD1-	CD4 EM	CD3+CD4+CD45RA-CCR7-CD57-PD1-	CD57 vs. PD1
CD4 EM CD38+ HLADR+	CD4 EM	CD3+CD4+CD45RA-CCR7-CD38+HLADR+	CD38 vs. HLADr
CD4 EM CD38+ HLADR-	CD4 EM	CD3+CD4+CD45RA-CCR7-CD38+HLADR-	CD38 vs. HLADr
CD4 EMCD38- HLADR+	CD4 EM	CD3+CD4+CD45RA-CCR7-CD38-HLADR+	CD38 vs. HLADr
CD4 EM CD38- HLADR-	CD4 EM	CD3+CD4+CD45RA-CCR7-CD38-HLADR-	CD38 vs. HLADr
CD4 TEMRA	CD3+CD4+ T cells	CD3+CD4+CD45RA+CCR7-	CD45RA vs. CCR7
CD4 TEMRA pE1	CD3+CD4+ T cells	CD3+CD4+CD45RA+CCR7-CD27+CD28+	CD27 vs. CD28
CD4 TEMRA pE2	CD3+CD4+ T cells	CD3+CD4+CD45RA+CCR7-CD27+CD28-	CD27 vs. CD28
CD4 TEMRA E	CD3+CD4+ T cells	CD3+CD4+CD45RA+CCR7-CD27-CD28-	CD27 vs. CD28
CD4 TEMRA CD57+ PD1+	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD57+PD1+	CD57 vs. PD1
CD4 TEMRA CD57+ PD1-	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD57+PD1-	CD57 vs. PD1
CD4 TEMRA CD57- PD1+	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD57-PD1+	CD57 vs. PD1
CD4 TEMRA CD57- PD1-	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD57-PD1-	CD57 vs. PD1
CD4 TEMRA CD38+ HLADr+	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD38+HLADR+	CD38 vs. HLADr
CD4 TEMRA CD38+ HLADr-	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD38+HLADR-	CD38 vs. HLADr
CD4 TEMRA CD38- HLADr+	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD38-HLADR+	CD38 vs. HLADr
CD4 TEMRA CD38- HLADr-	CD4 TEMRA	CD3+CD4+CD45RA+CCR7-CD38-HLADR-	CD38 vs. HLADr
CD25/CD127 Tregs	CD4+ T cells	CD3+CD4+CD127low/negCD25hi	CD25 vs. CD127
Treg naive	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA+CCR7+	CD45RA vs. CCR7
Treg naive HLADr+	Treg naive	CD3+CD4+CD127low/negCD25hiCD45RA+CCR7+HLADR+	SSC-A vs. HLADR (HLADr+)
Treg EM	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-CCR7-	CD45RA vs. CCR7

Treg EM HLADr+	Treg EM	CD3+CD4+CD127low/negCD25hiCD45RA-CCR7-HLADR+	Histogram HLADr (HLADr+)
Treg CM	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-CCR7+HLADR+	CD45RA vs. CCR7
Treg CM HLADr+	Treg CM	CD3+CD4+CD127low/negCD25hiCD45RA-CCR7+HLADR+	Histogram HLADr (HLADr+)
Treg TEMRA	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA+CCR7-	CD45RA vs CCR7
Treg TEMRA HLADr+	Treg TEMRA	CD3+CD4+CD127low/negCD25hiCD45RA+CCR7-HLADR+	Histogram HLADr (HLADr+)
CD279 (PD1) Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-CD279+	CD45RA vs. CD279 (CD279+)
CD95 Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-CD95+	CD45RA vs. CD95 (CD95+)
HLADR+ Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-HLADR+	CD45RA vs. HLADR
CD45RA-CD38+ Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-CD38+	CD45RA vs. CD38
CD45RA+CD38+ Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA+CD38+	CD45RA vs. CD38
CD45RA-CD38- Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA-CD38-	CD45RA vs. CD38
CD45RA+CD38- Tregs	CD25/CD127 Tregs	CD3+CD4+CD127low/negCD25hiCD45RA+CD38-	CD45RA vs. CD38
PD1+CD95+ CD4+	CD4+ T cells	CD3+CD4+CD279+CD95+	PD1 vs. CD95 (PD1+, CD95+)
PD1+CD95- CD4+	CD4+ T cells	CD3+CD4+CD279+CD95-	PD1 vs. CD95 (PD1+, CD95-)
PD1-CD95+ CD4+	CD4+ T cells	CD3+CD4+CD279-CD95+	PD1 vs. CD95 (PD1-, CD95+)
PD1-CD95- CD4+	CD4+ T cells	CD3+CD4+CD279-CD95-	PD1 vs. CD95 (PD1-, CD95-)

CD57+ in CD4 T cells	CD4+ T cells	CD3+CD4+CD57+	SSC-A vs. CD57
CD45RA+CD57+ in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA+CD57+	CD45RA vs. CD57
CD45RA-CD57+ in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA-CD57+	CD45RA vs. CD57
CD45RA+CD57- in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA+CD57-	CD45RA vs. CD57
CD45RA-CD57- in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA-CD57-	CD45RA vs. CD57
HLADR+ in CD4 T cells	CD4+ T cells	CD3+CD4+HLADR+	SSC-A vs. HLADR
CD38+ in CD4 T cells	CD4+ T cells	CD3+CD4+CD38+	SSC-A vs. CD38
CD45RA+CD38+ in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA+CD38+	CD45RA vs. CD38
CD45RA-CD38+ in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA-CD38+	CD45RA vs. CD38
CD45RA+CD38- in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA+CD38-	CD45RA vs. CD38
CD45RA-CD38- in CD4 T cells	CD4+ T cells	CD3+CD4+CD45RA-CD38-	CD45RA vs. CD38
CD3+CD8+ T cells	lymphocytes	CD3+CD8+	CD3 vs. CD8
CD8 NAIVE	CD3+CD8+ T cells	CD3+CD8+CD45RA+CCR7+	CD45RA vs. CCR7
CD8 NAIVE CD27+CD28+	CD8 naive	CD3+CD8+CD45RA+CCR7+CD27+CD28+	CD27 vs. CD28
CD8 naive CD57+ PD1+	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD57+PD1+	CD57 vs. PD1
CD8 naive CD57+ PD1-	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD57+PD1-	CD57 vs. PD1

CD8 naive CD57- PD1+	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD57-PD1+	CD57 vs. PD1
CD naive CD57- PD1-	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD57-PD1-	CD57 vs. PD1
CD8 naive CD38+ HLADR+	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD38+HLADR+	CD38 vs. HLADr (CD38+, HLADr+)
CD8 naive CD38+ HLADR-	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD38+HLADR-	CD38 vs. PD1 (CD57+, PD1-)
CD8 naive CD38- HLADR+	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD38-HLADR+	CD38 vs. HLADr (CD38-, HLADr+)
CD8 naive CD38- HLADR-	naive CD8 CD28+CD27+	CD3+CD8+CD45RA+CCR7+CD27+CD28+CD38-HLADR-	CD38 vs. HLADr (CD38-, HLADr-)
CD8 CM	CD3+CD8+ T cells	CD3+CD8+CD45RA-CCR7+	CD45RA vs. CCR7
CD8 CM CD27+CD28+	CD8 CM	CD3+CD8+CD45RA-CCR7+CD27+CD28+	CD27 vs. CD28
CD8 CM CD57+ PD1+	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD57+PD1+	CD57 vs. PD1 (CD57+, PD1+)
CD8 CM CD57+ PD1-	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD57+PD1-	CD57 vs. PD1 (CD57+, PD1-)
CD8 CM CD57- PD1+	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD57-PD1+	CD57 vs. PD1 (CD57-, PD1+)
CD4 CM CD57- PD1-	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD57-PD1-	CD57 vs. PD1 (CD57-, PD1-)
CD8 CM CD38+ HLADR+	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD38+HLADR+	CD38 vs. HLADr (CD38+, HLADr+)

CD8 CM CD38+ HLADR-	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD38+HLADR-	CD38 vs. HLADr (CD38+, HLADr-)
CD8 CMCD38- HLADR+	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD38-HLADR+	CD38 vs. HLADr (CD38-, HLADR+)
CD8 CM CD38- HLADR-	CD8 CM CD27+CD28+	CD3+CD8+CD45RA-CCR7+CD27+CD28+CD38-HLADR-	CD38 vs. HLADr (CD38-, HLADr-)
CD8 EM	CD3+CD8+ T cells	CD3+CD8+CD45RA-CCR7-	CD45RA vs. CCR7
CD8 EM CD27+CD28+	CD8 EM	CD3+CD8+CD45RA-CCR7-CD28+CD27+	CD27 vs. CD28 (CD28+, CD27+)
CD8 EM CD27-CD28+	CD8 EM	CD3+CD8+CD45RA-CCR7-CD28-CD27+	CD27 vs. CD28 (CD28-, CD27+)
CD8 EM CD27-CD28-	CD8 EM	CD3+CD8+CD45RA-CCR7-CD28-CD27-	CD27 vs. CD28 (CD28-, CD27-)
CD8 EM CD27+CD28-	CD8 EM	CD3+CD8+CD45RA-CCR7-CD28+CD27-	CD27 v.s CD28 (CD28+, CD27-)
CD8 EM CD57+ PD1+	CD8 EM	CD3+CD8+CD45RA-CCR7-CD57+PD1+	CD57 vs. PD1 (CD57+, PD1+)
CD8 EM CD57+ PD1-	CD8 EM	CD3+CD8+CD45RA-CCR7-CD57+PD1-	CD57 vs. PD1 (CD57+, PD1-)
CD8 EM CD57- PD1+	CD8 EM	CD3+CD8+CD45RA-CCR7-CD57-PD1+	CD57 vs. PD1 (CD57-, PD1+)
CD8 EM CD57- PD1-	CD8 EM	CD3+CD8+CD45RA-CCR7-CD57-PD1-	CD57 vs. PD1 (CD57-, PD1-)
CD8 EM CD38+ HLADr+	CD8 EM	CD3+CD8+CD45RA-CCR7-CD38+HLADR+	CD38 vs. HLADr (CD38+, HLADR+)

CD8 EM CD38+ HLADr-	CD8 EM	CD3+CD8+CD45RA-CCR7-CD38+HLADR-	CD38 vs. PD1 (CD57+, PD1-)
CD8 EMCD38- HLADr+	CD8 EM	CD3+CD8+CD45RA-CCR7-CD38-HLADR+	CD38 vs. HLADr (CD38-, HLADr+)
CD8 EM CD38- HLADr-	CD8 EM	CD3+CD8+CD45RA-CCR7-CD38-HLADR-	CD38 vs. HLADr (CD38-, HLADr-)
CD8 TEMRA	CD3+CD8+ T cells	CD3+CD8+CD45RA+CCR7-	CD45RA vs. CCR7
CD8 TEMRA pE1	CD3+CD8+ T cells	CD3+CD8+CD45RA+CCR7-CD27+CD28+	CD27 vs. CD28
CD8 TEMRA pE2	CD3+CD8+ T cells	CD3+CD8+CD45RA+CCR7-CD27+CD28-	CD27 vs. CD28
CD8 TEMRA E	CD3+CD8+ T cells	CD3+CD8+CD45RA+CCR7-CD27-CD28-	CD27 vs. CD28
CD8 TEMRA CD57+ PD1+	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD57+PD1+	CD57 vs. PD1 (CD57+, PD1+)
CD8 TEMRA CD57+ PD1-	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD57+PD1-	CD57 vs. PD1 (CD57+, PD1-)
CD8 TEMRA CD57- PD1+	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD57-PD1+	CD57 vs. PD1 (CD57-, PD1+)
CD8 TEMRA CD57- PD1-	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD57-PD1-	CD57 vs. PD1 (CD57-, PD1-)
CD8 TEMRA CD38+ HLADr+	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD38+HLADR+	CD38 vs. HLADr (CD38+, HLADr+)
CD8 TEMRA CD38+ HLADr-	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD38+HLADR-	CD38 vs. PD1 (CD57+, PD1-)
CD8 TEMRA CD38- HLADr+	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD38-HLADR+	CD38 vs. HLADr (CD38-, HLADr+)

CD8 TEMRA CD38- HLADr-	CD8 TEMRA	CD3+CD8+CD45RA+CCR7-CD38-HLADR-	CD38 vs. HLADr (CD38-, HLADr-)
CD57+ in CD8 T cells	CD8+ T cells	CD3+CD8+CD57+	SSC-A vs. CD57
CD57+CD28- CD8+ cells	CD8+ T cells	CD3+CD8+CD57+CD28-	CD57 vs. CD28
CD57+CD28+CD8+ cells	CD8+ T cells	CD3+CD8+CD57+CD28+	CD57 vs. CD28
CD57+CD28- CD8+ cells	CD8+ T cells	CD3+CD8+CD57-CD28+	CD57 vs. CD28
CD57+CD28- CD8+ cells	CD8+ T cells	CD3+CD8+CD57-CD28-	CD57 vs. CD28
HLADR+ in CD8 Tcells	CD8+ T cells	CD3+CD8+HLADR+	SSC-A vs. HLADR
CD45RA-HLADR+ in CD8+ cells	CD8+ T cells	CD3+CD8+CD45RA-HLADR+	CD45RA vs. HLADR
CD45RA+HLADR+ in CD8+ cells	CD8+ T cells	CD3+CD8+CD45RA+HLADR+	CD45RA vs. HLADR
CD45RA+HLADR- in CD8+ cells	CD8+ T cells	CD3+CD8+CD45RA+HLADR-	CD45RA vs. HLADR
CD45RA-HLADR- in CD8+ cells	CD8+ T cells	CD3+CD8+CD45RA-HLADR-	CD45RA vs. HLADR
PD-1+CD95+ CD8+	CD8+ T cells	CD3+CD8+CD279+CD95+	PD1 vs. CD95 (PD1+, CD95+)
PD-1+CD95- CD8+	CD8+ T cells	CD3+CD8+CD279+CD95-	PD1 vs. CD95 (PD1+, CD95-)
PD-1-CD95+ CD8+	CD8+ T cells	CD3+CD8+CD279-CD95+	PD1 vs. CD95 (PD1-, CD95+)
PD-1-CD95- CD8+	CD8+ T cells	CD3+CD8+CD279-CD95-	PD1 vs. CD95 (PD1-, CD95-)

CD45RA+CD38+ in CD8 T cells	CD8+ T cells	CD3+CD8+CD45RA+CD38+	CD45RA vs. CD38
CD45RA-CD38+ in CD8 T cells	CD8+ T cells	CD3+CD8+CD45RA-CD38+	CD45RA vs. CD38
CD45RA+CD38- in CD8 T cells	CD8+ T cells	CD3+CD8+CD45RA+CD38-	CD45RA vs. CD38
CD45RA-CD38- in CD8 T cells	CD8+ T cells	CD3+CD8+CD45RA-CD38-	CD45RA vs. CD38
Panel 3			
Population	reported as % of	Phenotype	Gating
% CD19+ in lymphocytes	lymphocytes	CD19pos	CD19 vs. SSC-A/CD19 Histogramm
% CD19+CD20+ B cells in lymphocytes	lymphocytes	CD19+CD20+	CD20 vs. CD19
% activated B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD86+	SSC-A vs. CD86
% CCR7+ B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CCR7+	SSC-A vs. CCR7
% B1-type B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD27-CD5+	CD27 vs. CD5
% activated B1-type B cells in B1-type B cells	B1-type B cells	CD19+CD20+CD27-CD5+CD86+	SSC-A vs. CD86
% CCR7+ B1-type B cells in B1-type B cells	B1-type B cells	CD19+CD20+CD27-CD5+CCR7+	SSC-A vs. CCR7
% IgD post-switched B cells in B cells	CD19+CD20+ B cells	CD19+CD20+IgD-CD27+	IgD vs. CD27

% activated IgD post-switched B cells in IgD post-switched B cells	IgD post-switched B cells	CD19+CD20+IgD-CD27+CD86+	SSC-A vs. CD86
% CCR7+ IgD post-switched B cells in IgD post-switched B cells	IgD post-switched B cells	CD19+CD20+IgD-CD27+CCR7+	SSC-A vs. CCR7
% IgD-CD27- B cells in B cells	CD19+CD20+ B cells	CD19+CD20+IgD-CD27-	IgD vs. CD27
% activated IgD-CD27- B cells in IgD-CD27- B cells	IgD-CD27- B cells	CD19+CD20+IgD-CD27-CD86+	SSC-A vs. CD86
% CCR7+ IgD-CD27- B cells in IgD-CD27- B cells	IgD-CD27- B cells	CD19+CD20+IgD-CD27-CCR7+	SSC-A vs. CCR7
% marginal zone B cells in B cells	CD19+CD20+ B cells	CD19+CD20+IgD+CD27+	IgD vs. CD27
% activated marginal zone B cells in marginal zone B cells	marginal zone B cells	CD19+CD20+IgD+CD27+CD86+	SSC-A vs. CD86
% CCR7+ marginal zone B cells in marginal zone B cells	marginal zone B cells	CD19+CD20+IgD+CD27+CCR7+	SSC-A vs. CCR7
% naive B cells in B cells	CD19+CD20+ B cells	CD19+CD20+IgD+CD27-	IgD vs. CD27
% activated naive B cells in naive B cells	naive B cells	CD19+CD20+IgD+CD27-CD86+	SSC-A vs. CD86
% CCR7+ naive B cells in naive B cells	naive B cells	CD19+CD20+IgD+CD27-CCR7+	SSC-A vs. CCR7

% CD27+ B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD27+	SSC-A vs. CD27
% activated CD27+ B cells in CD27+ B cells	CD27+ B cells	CD19+CD20+CD27+CD86+	SSC-A vs. CD86
% CCR7+ CD27+ B cells in CD27+ B cells	CD27+ B cells	CD19+CD20+CD27+CCR7+	SSC-A vs. CCR7
% Class-switched memory B cells in B cells	CD27+ B cells	CD19+CD20+CD27+IgM-IgD-	IgM vs. IgD
% activated Class-switched memory B cells in Class-switched memory B cells	Class-switched memory B cells	CD19+CD20+CD27+IgM-IgD-CD86+	SSC-A vs. CD86
% CCR7+ Class-switched memory B cells in Class-switched memory B cells	Class-switched memory B cells	CD19+CD20+CD27+IgM-IgD-CCR7+	SSC-A vs. CCR7
% IgM only memory B cells in B cells	CD27+ B cells	CD19+CD20+CD27+IgM+IgD-	IgM vs. IgD
% activated IgM only memory B cells in IgM only memory B cells	IgM only memory B cells	CD19+CD20+CD27+IgM+IgD-CD86+	SSC-A vs. CD86
% CCR7+ IgM only memory B cells in IgM only memory B cells	IgM only memory B cells	CD19+CD20+CD27+IgM+IgD-CCR7+	SSC-A vs. CCR7
% IgM-IgD+ memory B cells in B cells	CD27+ B cells	CD19+CD20+CD27+IgM-IgD+	IgM vs. IgD

% activated IgM-IgD+ memory B cells in IgM-IgD+ memory B cells	IgM-IgD+ memory B cells	CD19+CD20+CD27+IgM-IgD+CD86	SSC-A vs. CD86
% CCR7+ IgM-IgD+ memory B cells in IgM-IgD+ memory B cells	IgM-IgD+ memory B cells	CD19+CD20+CD27+IgM-IgD+CCR7	SSC-A vs. CCR7
% Non-switched memory B cells in B cells	CD27+ B cells	CD19+CD20+CD27+IgM+IgD+	IgM vs. IgD
% activated Non-switched memory B cells in Non-switched memory B cells	Non-switched memory B cells	CD19+CD20+CD27+IgM+IgD+CD86	SSC-A vs. CD86
% CCR7+ Non-switched memory B cells in Non-switched memory B cells	Non-switched memory B cells	CD19+CD20+CD27+IgM+IgD+CCR7	SSC-A vs. CCR7
% CD27highCD38high ASC in B cells	CD19+CD20+ B cells	CD19+CD20+CD27hiCD38hi	CD27 vs. CD38
% activated CD27highCD38high ASC in CD27highCD38high ASC	CD27highCD38high ASC	CD19+CD20+CD27hiCD38hiCD86+	SSC-A vs. CD86
% CCR7+ CD27highCD38high ASC in CD27highCD38high ASC	CD27highCD38high ASC	CD19+CD20+CD27hiCD38hiCCR7+	SSC-A vs. CCR7
% OMIP CD10+ B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD10+	FSC-A vs. CD10

% CCR7+ OMIP CD10+ B cells in OMIP CD10+ B cells	CD10+ B cells	CD19+CD20+CD10+CCR7+	SSC-A vs. CCR7
% OMIP Transitional B cells in OMIP CD10+ B cells	CD10+ B cells	CD19+CD20+CD10+IgD+CD38+	IgD vs. CD38
% OMIP Transitional B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD10+IgD+CD38+	IgD vs. CD38
% CCR7+ OMIP Transitional B cells in OMIP Transitional B cells	CD10+transitional B cells	CD19+CD20+CD10+IgD+CD38+CCR7+	SSC-A vs. CCR7
% OMIP CD10- B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD10-	FSC-A vs. CD10
% CCR7+ OMIP CD10- B cells in OMIP CD10- B cells	CD10- B cells	CD19+CD20+CD10-CCR7+	SSC-A vs. CCR7
% OMIP unswitched B cells in OMIP CD10- B cells	CD10- B cells	CD19+CD20+CD10-IgD+CD38-	IgD vs. CD38
% OMIP unswitched B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD10-IgD+CD38-	IgD vs. CD38
% CCR7+ OMIP unswitched B cells in OMIP unswitched B cells	OMIP unswitched B cells	CD19+CD20+CD10-IgD+CD38-CCR7+	SSC-A vs. CCR7
% OMIP marginal Zone B cells in OMIP unswitched B cells	OMIP unswitched B cells	CD19+CD20+CD10-IgD+CD38-CD27+	IgD vs. CD27
% CCR7+ OMIP marginal Zone B cells in OMIP marginal Zone B cells	OMIP marginal Zone B cells	CD19+CD20+CD10-IgD+CD38-CD27+CCR7+	SSC-A vs. CCR7

% OMIP naive B cells in OMIP unswitched B cells	OMIP unswitched B cells	CD19+CD20+CD10-IgD+CD38-CD27-	IgD vs. CD27
% CCR7+ OMIP naive B cells in OMIP naive B cells	OMIP naive B cells	CD19+CD20+CD10-IgD+CD38-CD27-CCR7+	SSC-A vs. CCR7
% OMIP Plasmablasts in OMIP CD10- B cells	OMIP CD10- B cells	CD19+CD20+CD10-IgD-CD38+	IgD vs. CD38
% OMIP Plasmablasts in B cells	CD19+CD20+ B cells	CD19+CD20+CD10-IgD-CD38+	IgD vs. CD38
% CCR7+ OMIP Plasmablasts in OMIP Plasmablasts	OMIP Plasmablasts	CD19+CD20+CD10-IgD-CD38+CCR7+	SSC-A vs. CCR7
% OMIP Memory B cells in OMIP CD10- B cells	OMIP CD10- B cells	CD19+CD20+CD10-IgD-CD38-	IgD vs. CD38
% OMIP Memory B cells in B cells	CD19+CD20+ B cells	CD19+CD20+CD10-IgD-CD38-	IgD vs. CD38
% CCR7+ OMIP Memory B cells in OMIP Memory B cells	OMIP memory B cells	CD19+CD20+CD10-IgD-CD38-CCR7+	SSC-A vs. CCR7
% OMIP resting Memory B cells in OMIP Memory B cells	OMIP memory B cells	CD19+CD20+CD10-IgD-CD38-CD21+CD27+	CD21 vs. CD27
% CCR7+ OMIP resting Memory B cells in OMIP resting Memory B cells	OMIP resting memory B cells	CD19+CD20+CD10-IgD-CD38-CD21+CD27+CCR7+	SSC-A vs. CCR7
% OMIP intermediate Memory B cells in OMIP Memory B cells	OMIP memory B cells	CD19+CD20+CD10-IgD-CD38-CD21+CD27-	CD21 vs. CD27

% CCR7+ OMIP intermediate Memory B cells in OMIP intermediate Memory B cells	OMIP intermediate memory B cells	CD19+CD20+CD10-IgD-CD38-CD21+CD27-CCR7+	SSC-A vs. CCR7
% OMIP activated Memory B cells in OMIP Memory B cells	OMIP memory B cells	CD19+CD20+CD10-IgD-CD38-CD21-CD27+	CD21 vs. CD27
% CCR7+ OMIP activated Memory B cells in OMIP activated Memory B cells	OMIP activated memory B cells	CD19+CD20+CD10-IgD-CD38-CD21-CD27+CCR7+	SSC-A vs. CCR7
% OMIP exhausted tissue-like Memory B cells in OMIP Memory B cells	OMIP memory B cells	CD19+CD20+CD10-IgD-CD38-CD21-CD27-	CD21 vs. CD27
% CCR7+ OMIP exhausted tissue-like Memory B cells in OMIP exhausted tissue-like Memory B cells	OMIP exhausted tissue like memory B cells	CD19+CD20+CD10-IgD-CD38-CD21-CD27-CCR7+	SSC-A vs. CCR7